

36

WTCI-517-P

CAPITAL PROJECT PROPOSAL SUMMARY FORM FOR (PROJECT NAME): The World Trade Center Asbest. Abatement Program

PLAINTIFF'S
EXHIBIT
1 PX-754

MYBP PROGRAM NAME: WTC		SUBMITTAL FOR (CHECK ONE)		REFERENCE NUMBERS																																																																																																																											
FACILITY: WTC		PLANNING AUTHORIZATION: <input type="checkbox"/>		RESOURCE PLANNING FILE NO.:																																																																																																																											
CONTACT PERSON: Dominick Montalbsno		PROJECT AUTHORIZATION: <input checked="" type="checkbox"/>		PROPERTY CODE NUMBER:																																																																																																																											
PHONE NUMBER: 116-66621		REAUTHORIZATION: <input type="checkbox"/>		DATE OF THIS SUBMITTAL: ____/____/____																																																																																																																											
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SCOPE/PURPOSE OF PROJECT: Remove asbestos materials from 32 office floors, isolated locations on other office floors, maintenances, public and construction areas to permit tenant reconstruction of these spaces, installation of fire sprinkler systems and performance of maintenance activities with minimal disturbance of asbestos materials.

M 001332

PRIORITY ASSESSMENT AND CRITICAL ISSUES: Recent federal and local laws enacted with regard to asbestos materials place severe limitations on its disturbance. Existing tenants with asbestos fireproofing materials above the architectural ceiling cannot make alterations without incurring premium costs and liabilities. New tenants want the asbestos cleared out before they move in. These floors tend to become and remain vacant. Due to the presence

HIGHLIGHTS OF REVIEWS			PROCEED?		SUMMARY OF IMPACTS (CHECK ONE)		MILESTONE DATES:	
			YES	NO				
DEPARTMENT	REVIEWER	MO./YR.			NO IMPACT		IMPACT	
ENGINEERING:	_____	____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
FIN. ANAL.:	_____	____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
GOV. COMM.:	_____	____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
LAW.:	_____	____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
MBD:	_____	____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
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OTHER:	_____	____/____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
					REGIONAL ECONOMIC:		<input checked="" type="checkbox"/>	
							SITE ACQUISITION: ____/____	
							PLAN. AUTHOR.: ____/____	
							PROJ. AUTHOR.: 8 / 88	
							1st CONTRACT: 6 / 86	
							LAST CONTRACT: 3 / 93	
							BEGIN CONSTR.: ____/____	
							END CONSTR.: ____/____	
							USE/OCCUPCY.: ____/____	

AGENDA ITEM

- 1) Authorize a project for the removal of asbestos materials from:
32 office floors; isolated spots on other office floors; public areas where the material is easily disturbed; and, on an as-needed basis for emergency repairs, maintenance activities and to permit base building construction work to proceed in the estimated amount of \$124,720,000.
- 2) Authorize the Executive Director to enter into lease agreements with existing tenants, on floors to be abated, for their relocation to reconstructed space on other floors with work order allowances up to \$40 per s.f. for the tenant's consultants and contractors to design and construct the office space; or, negotiate a surrender of the lease in lieu of a relocation.
- 3) Authorize the Executive Director to enter into lease agreements with new tenants who will occupy space on floors, where existing office space finishes have been removed to permit removal of asbestos fireproofing materials, to include work order allowance up to \$40 per s.f. for the tenant's consultant's and contractors to design and construct the office space.
- 4) Authorize the Executive Director to enter into agreements with Architectural/Engineering firms, to be retained on a call-in basis to prepare construction documents for tenants to be relocated to reconstructed office space; and, for new tenants who will occupy space on floors which have been abated.

- X
- 5) Authorize the Executive Director to award construction contracts to a prequalified list of asbestos removal contractors on the basis of bids to be received and supplementary contracts to be negotiated based on contractors performance and cost proposal.
 - 6) Authorize the Executive Director to award construction contracts to a prequalified list of office space construction contractors on the basis of bids to be received.

One World Trade Center, and because of concern of exposure of workers and building occupants to airborne asbestos fibers, the Inspection and Safety Division of the Public Safety Department periodically performed air monitoring tests in these areas, particularly during periods when ceilings were opened for construction or maintenance work. These tests collected all fibers in the air, some of which were non-asbestos. The results of the tests indicated the concentration of airborne fibers did not exceed or approach the permissible level included in the 1986 OSHA regulations.

GOALS AND OBJECTIVES OF PROJECT: In June of 1985, the United States Environmental Protection Agency (USEPA) issued a document "Guidance for Controlling Asbestos Containing Materials in Buildings", commonly known as the Purple Book. Guided by this document over 16,000 bulk samples have been taken and analyzed in order to identify the location of asbestos containing materials in the World Trade Center. The results of these tests confirmed expectations of asbestos containing fireproofing materials in: The first zone of One World Trade Center; and, mechanical equipment floors, sound insulation of floors below mechanical equipment floors, utility shafts and elevator shafts in both One and Two World Trade Center. Isolated spots of asbestos containing fireproofing materials were found at unexpected locations on office floors in One and Two World Trade Center. Surprisingly, the 108/109th mechanical equipment floors, the Observation Deck in Two World Trade Center and certain elevator shafts, or portions thereof, were asbestos free. Apparently, at some point during construction, a substitute for the asbestos containing Cafco Mark II hard coat was found and utilized.

Four World Trade Center was found to be asbestos free and Five World Trade Center was found to have only two isolated spots of asbestos fireproofing material. Bulk sample testing is continuing this year to define the limits of identified asbestos containing materials throughout the project and its condition.

This project is the first phase of asbestos abatement at the World Trade Center. This project addresses the removal of asbestos containing fireproofing materials from structural steel on office floors; clean-up of various maintenance areas in which asbestos containing materials have been disturbed in the past and debris

lays scattered around the work area, or the asbestos containing material is in poor condition, friable, and easily made airborne; removal of asbestos material in public areas that is exposed and easily susceptible to damage; and, removal of asbestos materials on an as-needed basis to facilitate maintenance, emergency repairs and base building construction.

Based on the continued sampling to define the asbestos containing material, and maintenance and construction practices developed for safe-guarding against asbestos contamination, future phases of asbestos abatement at the World Trade Center will address how to deal with identified asbestos in mechanical equipment rooms, elevator shafts and utility shafts.

JUSTIFICATION OF PROJECT: This project is necessary to provide for new tenants to re-build office space finishes to suit their needs, existing tenants to expand and modernize their spaces, complete the installation of the sprinkler fire protection system, provide a work efficient environment for the performance of maintenance activities and clear miscellaneous areas of asbestos materials so that work under base building construction contracts can proceed.

SECTION 2: ALTERNATIVE ANALYSIS

ALTERNATIVE 1A: DO NOTHING IN OFFICE SPACE AREAS

This alternative will avoid construction costs for tenant relocation, asbestos abatement and space reconstruction.

Tenants on floors with asbestos containing fireproofing materials are prevented from upgrading and modernizing their areas unless costly expenditures are made for asbestos abatement. Consequently, tenants wanting to upgrade and modernize their spaces will move out of their current leaseholds.

New tenants will not undertake costly asbestos abatement work to re-work the office space finishes to suit their needs.

Consequently, the trend of this alternative would be for accumulation of vacant office space for floors with asbestos fireproofing materials above the architecturally suspended ceiling.

The installation of fire protection sprinklers and the performance of maintenance work will be inefficient and costly due to protective measures that must be taken.

ALTERNATIVE 1B: DO NOTHING IN MAINTENANCE AREAS AND AREAS HIGHLY SUSCEPTIBLE TO

DAMAGE: This alternative will avoid construction costs for removal of asbestos containing materials and their replacement with non-asbestos materials.

Maintenance staff will be required to take special precautions in areas of asbestos hazards. In emergency conditions, when an asbestos release has taken place, occupants may have to be evacuated. Maintenance activities in areas with asbestos containing materials will not be as efficient as maintenance in areas without asbestos. Workers and building inhabitants exposed to airborne asbestos may institute law suits if they become sick with asbestos related diseases.

ALTERNATIVE 2 - ENCLOSE OR ENCAPSULATE ASBESTOS CONTAINING MATERIAL TO PREVENT AIRBORNE RELEASE: This is not a viable alternative for the areas to be abated under this project since the enclosure or encapsulation would be breached during construction and maintenance activities.

ALTERNATIVE 3 - REMOVE ASBESTOS CONTAINING MATERIALS : FROM OFFICE FLOORS; FROM PUBLIC AREAS WHERE THE MATERIAL IS HIGHLY SUSCEPTIBLE TO DAMAGE; FROM MAINTENANCE AREAS WHERE THE MATERIAL IS DAMAGED AND VERY FRIABLE; FROM MAINTENANCE AREAS WHERE THE ASBESTOS CONTAINING MATERIAL HAS PREVIOUSLY BEEN DISTURBED AND LAYS ON SURFACES WHICH CAN EASILY BE DISTURBED BY MAINTENANCE WORKERS; AND, ON AN AS-NEEDED BASIS TO FACILITATE MAINTENANCE, EMERGENCY REPAIRS AND BASE BUILDING CONSTRUCTION: This alternative allows tenants to maximize the utilization of office space at the World Trade Center and provides highest rentals available in the market place, minimizes vacancies and minimizes exposure of tenants and workers to asbestos hazards.

SECTION 3: INFORMATION RELATED TO THE SELECTED ALTERNATIVE

REASON FOR SELECTION: - Alternative 3, removal of asbestos containing materials from certain areas, is selected as the best alternative for the following reasons:

- o Tenants on office floors with asbestos containing fireproofing materials on structural steel above the architecturally suspended ceiling are prevented from expanding and modernizing their spaces due to costly asbestos abatement work that would have to be undertaken to proceed with the construction work. Consequently, the trend is for tenants to vacate these spaces.

Removal of asbestos containing structural steel fireproofing materials from office space areas will minimize costs for asbestos abatement in these areas for both the short and long term, reverse the trend for these areas to become and remain vacant, and eliminate lost rentals for these areas.

- o As a result of media reporting on the hazards of asbestos during the past several years and the more recent regulations issued by OSHA and Local Law No. 76 enacted by New York City, real estate brokers and tenants looking for new space are inquiring into the existence of asbestos containing materials in the prospective leasehold. The position taken by the brokers and tenants is that an agreement on a lease will require the landlord to remove the asbestos from the leasehold.

By proceeding with a planned asbestos removal program, the asbestos removals can be performed in a controlled manner by trained personnel which will minimize asbestos exposure to building occupants and remove the asbestos in the most cost effective way.

The asbestos abated floors can then be marketed for highest rental

rates available in the marketplace.

- o Removal of asbestos material in maintenance areas where: the material has been previously disturbed and lays on surfaces which can be disturbed by maintenance workers; or where the material is damaged and very friable; or where maintenance or replacement activities are required which entails the disturbance of significant quantities of asbestos pipe or ventilation duct insulation, will improve the efficiency of maintenance activities and minimize the exposure of workers and building occupants to asbestos.

COST/FINANCIAL INFORMATION: (CONSTRUCTION COSTS ONLY)

o Remove Asbestos Materials on Office Floors:

o Completed Work or Under Contract

WTC-115.221 - 1 WTC Full Floors 10 & 11: \$2,062,390

WTC-115.225 - 1 WTC Full Floors 16 & 40,

2 WTC Full Floor 74, and

2 WTC Partial Removal

on Floor 41/42 (MER): \$4,602,400

WTC-115.223 - 2 WTC, Floor 33, Isolated

Spots (800 sq. ft.): \$ 22,440

EXD-100.367 - 1 WTC Floor 32, Isolated

Spots (2400 sq. ft.): \$ 98,000

- 2 WTC, Floor 43

(1100 sq. ft.): \$ 39,000

Subtotal \$6,824,230

Use \$6,825,000

o Future Office Floors

Note: 107th Floor of 1 WTC has asbestos fireproofing on the structural steel above the architecturally suspended ceiling but is not included in this summary since it is used as a restaurant.

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Full Floors

1 WTC-Floors 9, 12 to 15, 17 to 31, 33 to 37:	\$25,000,000
1 WTC Floor 74:	1,200,000
2 WTC Floor 40:	1,000,000

Partial Floors (Isolated Spots)

1 WTC- Floor 32 (800+900 sq. ft.):	250,000
" 39 (300 sq. ft.):	75,000
" 48 (1,000 + 2,000 sq. ft.):	250,000
" 82 (1,000 + 1,500 + 1,500 sq. ft.):	250,000
" 104 (8,000 sq. ft.):	250,000
2 WTC-Floor 13 (1,500 + 1,500 sq. ft.):	250,000
" 26 (2,500 sq. ft.):	125,000
" 71 (3,000 sq. ft.):	125,000
5 WTC-Floor 5 (2,500 sq. ft.):	125,000
" 9 (300 sq. ft.):	75,000

Subtotal	\$28,975,000
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o Relocate Tenants to other Floors to Allow for Asbestos Removals -

Tenants will be moved to other floors into re-constructed office space comparable to the space they currently occupy. This approach is less expensive than moving the tenant out of the premises temporarily and avoids disturbing the tenant twice.

Requiring existing office finishes to be protected during removal of asbestos fireproofing materials increases its cost from \$25 to approximately \$75 per s.f. and this does not include costs to repair damages, replace rugs, replacing ceiling tiles and repainting which could cost an additional \$5 to \$10 per s.f. Moving the tenant twice increases the moving cost from \$6 to \$10 per s.f. The cost to reproduce the tenant's space on another floor is estimated to cost up to \$40 per s.f. including design and construction costs.

Reconstructing new space for the existing tenants creates opportunities for existing tenants to reduce their leasehold if the current space they occupy

is too large, making the excess space available for current market rate rents; and, allows other tenants wanting to expand to increase their leasehold, paying for the refinishing of the additional space they will occupy and possibly some improved rental rates.

Within the 32 office floors requiring full floor asbestos abatement (approximately 1,200,000 s.f.), approximately 750,000 s.f. includes lease commitments that could involve relocation of the tenant into reconstructed space. The estimated cost of reconstruction and relocation (contract costs only) is as follows:

o Reconstruction (750,000 s.f. x \$35 per s.f.):	\$26,250,000
o Relocation (750,000 s.f. x \$6 per s.f.):	\$ 4,500,000
Subtotal	<u>\$30,750,000*</u>

- * Every effort will be made to minimize this cost by having tenants to be relocated take over space on non-asbestos floors in an as-is condition, encouraging tenants wanting to modernize and enlarge their premises to relocate to non-asbestos floors, and to anticipate which tenants will move out prior to, or upon, expiration of their lease.

This cost does not include relocating tenants from floors with isolated spots of asbestos fireproofing. These floors are planned to be cleaned only when the tenant vacates its space.

o <u>Remove Asbestos Fireproofing In Public And Other Select Areas</u> <u>Of The Subgrade:</u>	Subtotal	\$ 1,000,000
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- o Remove asbestos material in maintenance areas which was previously disturbed

and lays on surfaces of pipes and ducts, or which was damaged and the material is in poor condition, and select material on pipes and ducts to facilitate maintenance:

10 Mechanical Equipment Rooms at an allowance of \$300,000 per MER:	\$ 3,000,000
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Allowance for other maintenance areas:	\$ 500,000
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Subtotal	\$ 3,500,000
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- o Allowance to remove asbestos on an as-needed basis to facilitate maintenance, emergency repairs and to clear areas as required to permit construction issued under base building contracts to proceed:

Subtotal	\$ 2,000,000
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Total	\$73,050,000
Extra Work (10%)	7,305,000

Total	\$80,355,000
Escalation: (2 yrs at 5%)	8,035,000

Grand Total	\$88,390,000
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SCHEDULE OF PROJECTED CONTRACTS:

- o Asbestos removal from office floors

Contracts will be prepared for four to six full floors to be abated annually. All contractors will be pre-qualified for asbestos removal work at the World Trade Center. Depending on actual tenant move outs and negotiated tenant relocations, asbestos removal from the 32 office floors is planned for completion by 1993. These contracts will include provisions for asbestos removal on an as-needed basis from tenant areas

with isolated pockets of asbestos, asbestos removals from maintenance areas and removals from areas which are required for other construction to proceed.

- o Tenant relocations

Tenants are encouraged to engage their own consultants and contractors to arrange for their relocation at Port Authority expense. This work is then performed under a Tenant Alteration Application.

When tenants cannot manage their relocation, Port Authority staff with the aid of consultants will prepare the contract and engage the construction contractor.

- o Asbestos removals in maintenance areas, public areas and on an as-needed basis: One or more contracts will be prepared for removal of asbestos in these areas. These contracts will be performed on a lump sum basis for work that can be accurately defined and will include net cost provisions for work which cannot be quantified or must be performed on a call-in emergency basis.

SECTION 4: PROJECT MANAGEMENT PLAN

- o Preparation of construction drawings and technical specifications:
 - o Asbestos removal contracts - Drawings and specifications are expected to become standardized, and therefore, are expected to be prepared by the Engineering Department.
 - o Reconstruction of tenant spaces - Except when prepared by the tenant's consultant, will be prepared by the Engineering Department or one of their consultants. If Engineering Department workload does not permit this, The World Trade & Economic Development Department will engage consultants to perform this task.

In this regard, World Trade & Economic Development Department will develop a short list of consultants from which it will receive proposals and enter into agreements to prepare construction documents for reconstruction of tenant spaces.

- o Award of asbestos removal contracts - A prequalified list of asbestos removal contractors will be established. Contractors may be added or deleted from the list as deemed in the best interest of the Port Authority by the Director of the World Trade & Economic Development Department. Asbestos removal bids will be solicited from these contractors annually. Additional work will be negotiated with these contractors based on their performance and the cost of the work.
- o Award of tenant space construction contracts - A prequalified list of office space construction contractors will be established. Contractors may be added or deleted from the list as deemed in the best interests of the Port Authority by the Director of the World Trade & Economic

Development Department. Bids for tenant space construction contracts will be solicited from these contractors. Additional work will be negotiated with these contractors based on their performance and the cost of the work.

o Tenant Leases:

- o Tenant relocations - In order to provide for relocation of tenants, tenant leases will be re-negotiated to include work orders to design and construct new space by the tenant's consultants and contractors for up to \$40 per s.f. and up to \$6 per s.f. for moving allowance; or, negotiate surrender of existing leases in lieu of relocation.
- o New tenants taking space on asbestos abated floors - Since asbestos abated floors will be bare except for fireproofing reapplied to the structural system, work order allowances up to \$40 per s.f. will be negotiated with the tenant for the tenant's consultants and contractors to design and construct the space to the tenant's needs.

SECTION #5: REVIEW DEPARTMENT COMMENTS

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SECTION #6:- OTHER DOCUMENTATION AND INFORMATION

Not included in this analysis is the loss of rental income due to the inability to rent asbestos floors as is, through and until the floor is abated and re-rented; and, from the time tenants are relocated until the floor is abated and re-rented.

Discussions are underway with the Administrators of the New York State Fund for Regional Development to pay for the costs of asbestos removal from those office floors from which they will be receiving the rent and the cost of asbestos abatement in mechanical equipment rooms which serve Fund floors.

Efforts are underway by the Asbestos Litigation Task Force to recover costs from asbestos manufacturers for damages caused by asbestos products at Port Authority facilities including the World Trade Center.

A contingency of 10% is included in the project authorization request to provide for additional asbestos areas that may be discovered through continued survey work and delays in availability of floors for asbestos abatement due to problems with relocating tenants.

o Summary of Impacts:

- o Environmental- Asbestos materials will be removed from tenant areas in a safe and efficient manner permitting tenant alterations, installation of fire sprinkler system and normal maintenance activities in these areas. Maintenance areas will be cleaned of disturbed and damaged asbestos materials. Asbestos materials subject to damage in public areas will be removed.
- o Financial - Rental income of floors with asbestos fireproofing materials above the suspended architectural ceiling will be improved. Efforts to recover financial damages from asbestos manufacturers are underway by the Asbestos Litigation Task Force.
- o Legal Issues - OSHA passed new regulations in 1986 limiting

permissible exposure to workers of airborne asbestos fibers. New York City passed Local Law No. 76 in 1987 making building owners responsible to identify asbestos that may be disturbed during construction or alterations of the structure and to require the work to be performed in a manner to limit exposure to workers and building occupants to airborne asbestos fibers.

- o Operations - Maintenance areas will be cleared of previously disturbed and damaged asbestos materials creating a safer work environment.